

MCAS YUMA RANGE SAFETY BRIEF



Purpose

- The purpose of this brief is to provide basic information regarding range regulations and the conduct of operations within the Range Training Area.
- The Installation Range Brief can viewed at the following Website:
 - <https://www.mcasylum.marines.mil/Resources/Range-Notifications/>

Outline

- General information
- Safety standards and range procedures
- Natural/Cultural Resource Concerns

Range Management Department

Bldg 151 O'Neill St. MCAS Yuma, AZ 85369

Office Hours

Scheduling Desk

Mon-Fri: 07:30 – 16:30

928-269-2214 / 2215

Range Control Facility

LEG IRON

24 Hour Operations

928-269-7080

Points of Contact

Range Operations Director

Range Training Officer

Range Training Specialist

Range Biologist

928-269-2405

928-269-6488 / 928-287-6459

928-269-5574

928-269-6724/ 928-269-3402

Range Scheduling

928-269-2214 / 928-269-5575 /

928-269-2690

Fire Desk / Range Control

928-269-6830

MCAS Yuma EOD

928-269-2303 /2788

Camp Billy Machen (Quarter Deck) CMAGR

Range Operations Coordination Center (SNAKEYE) Luke AFB

U.S. Army YPG Training Exercise Management Office

928-269-7326 /619-537-3199

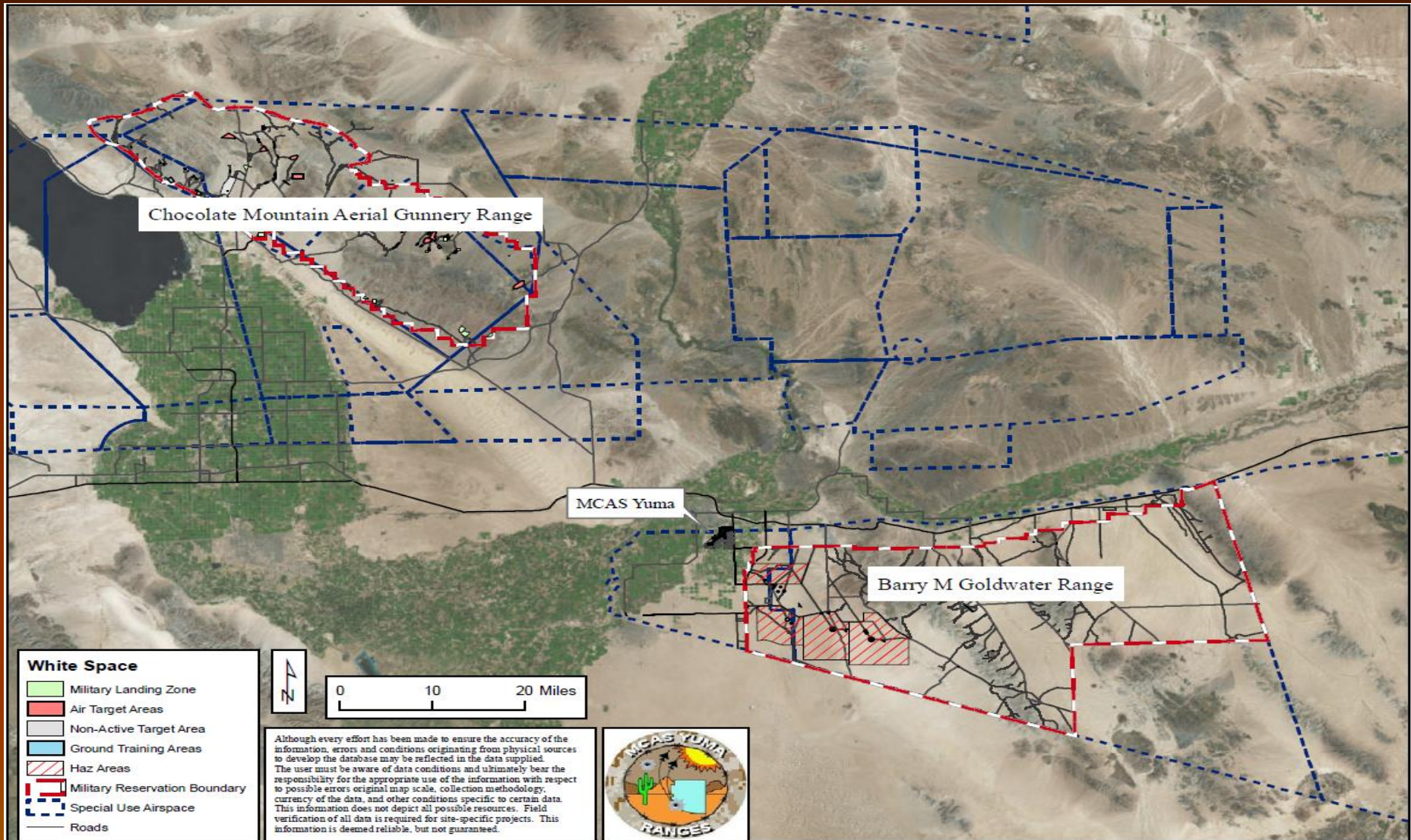
623-856-8818

928-269-3656 /928-941-1650

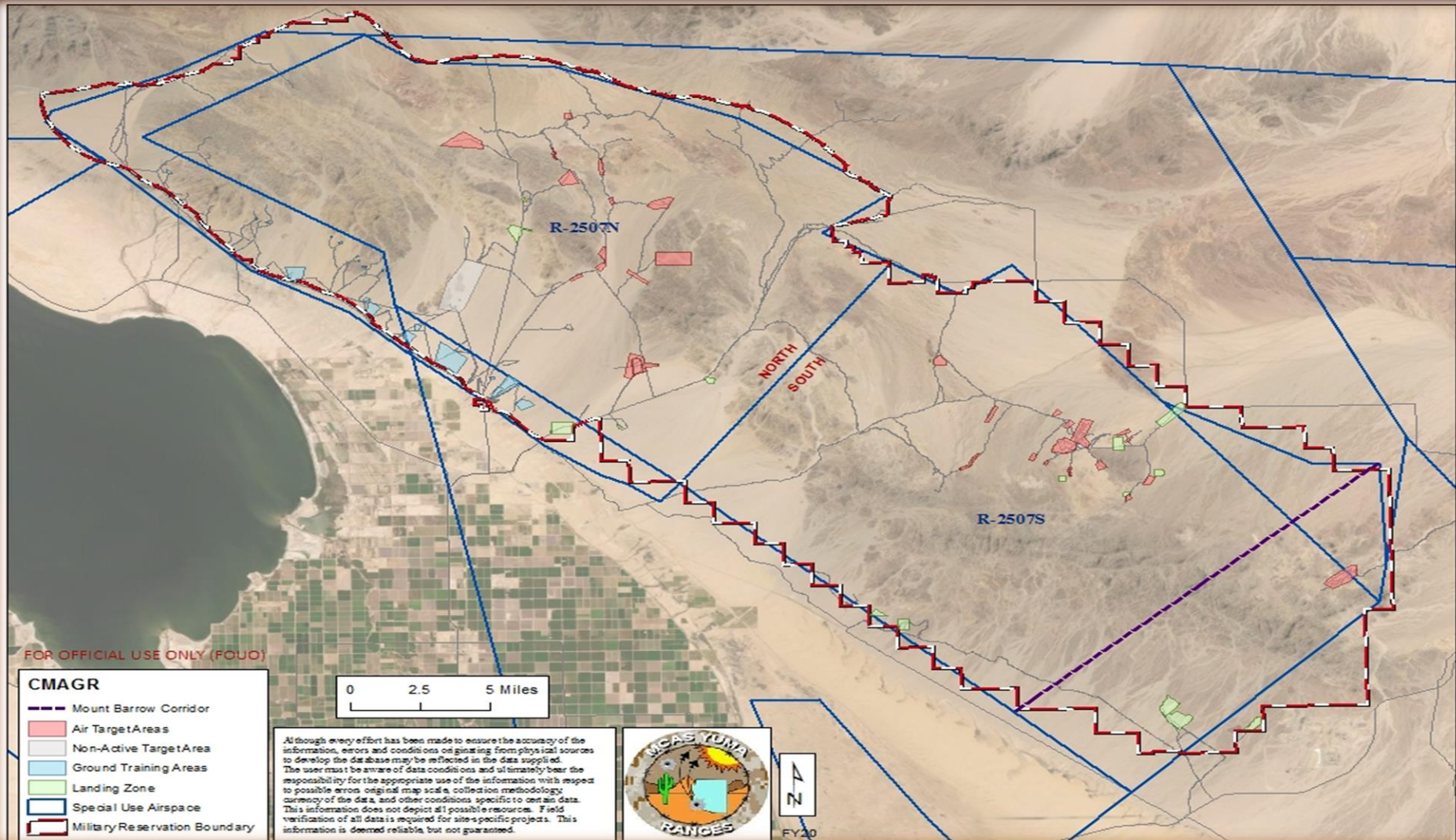
Orientation to MCAS YUMA

- 1.2 million acres of range lands
 - Chocolate Mountain Aerial Gunnery Range (CMAGR) - **California**
 - Barry M. Goldwater Range (BMGR) - **Arizona**
- 10,000 nm² airspace
 - 30 Portions of Special Use Airspace Available
 - Air Space scheduling activity for MCAS Yuma, NAF El Centro, and Yuma Proving Ground

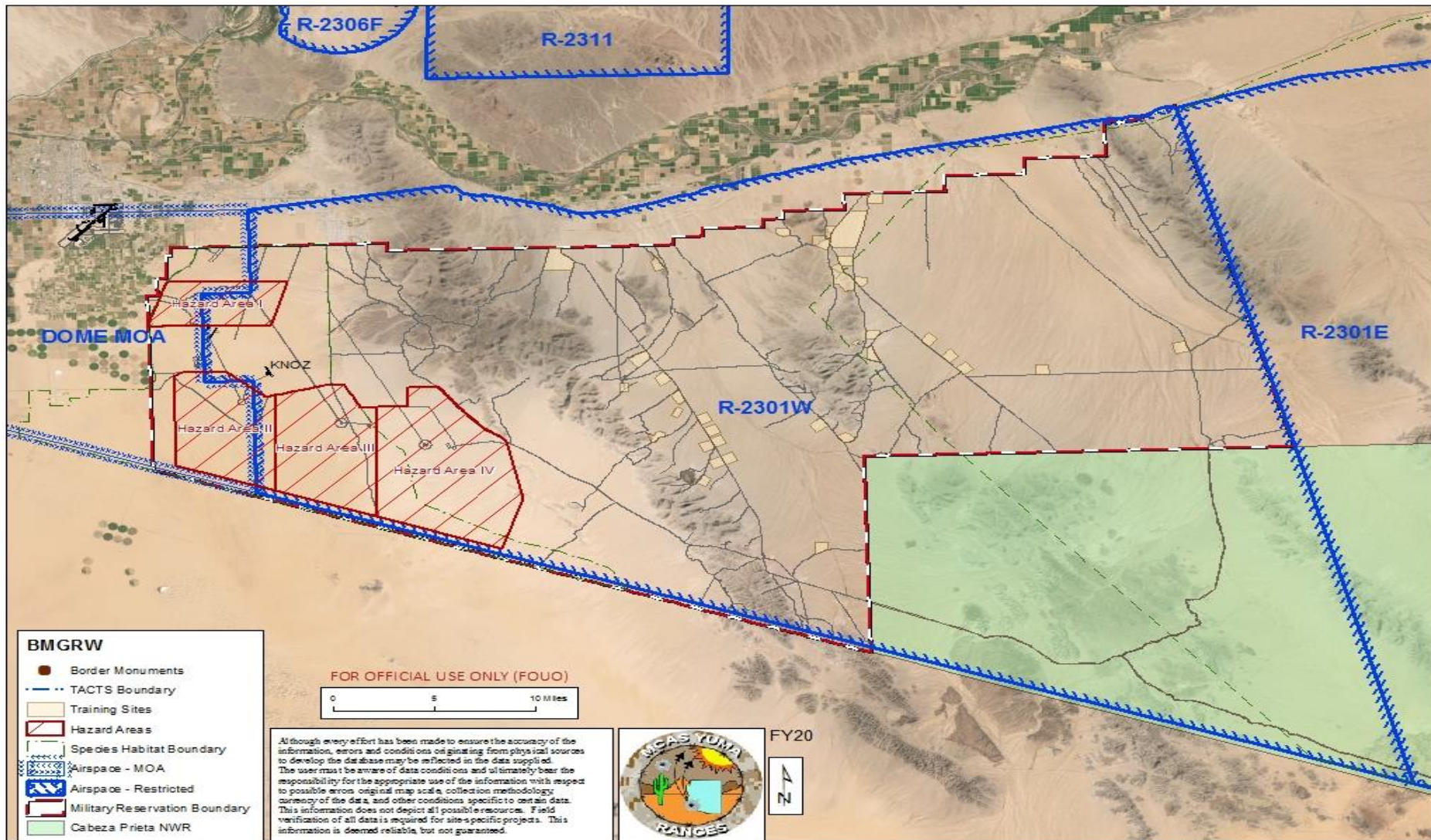
MCAS YUMA RANGES 2507 AND 2301



CHOCOLATE MOUNTAIN AERIAL GUNNERY RANGE 2507



BARRY M GOLDWATER RANGE 2301W



Range Scheduling

- Air and Ground Range Requests will be submitted via the Range Facility Management Support System (RFMSS) at least 14 days in advance of requested training.
- All requests shall be submitted in MCAS Yuma local standard time.
- Arizona does not observe Day Light Savings Time
 - Yuma local time is Zulu minus (7)
 - <https://rfmss2002.belvoir.army.mil/yuma/pages/login.aspx>
 - Contact the RFMSS support coordinator for unit access and training. 928-269-2215

Range Communications

- Per StaO 3710.6_ you are required to **maintain positive two-way communication with "LEG IRON" at ALL times** when occupying the RTA
- Contact "LEG IRON" for access to any Range Training Area.
 - Primary: LMR "LEG IRON" talk group/Channel
 - Secondary: FM 40.83
 - Tertiary: Unit - provided Iridium Satellite Phones
- Contact **must** be made to "LEG IRON" for access/egress, changes in operational status and or location while in the RTA.
 - Leg Iron needs to know how many passengers, vehicles and location
 - Radio checks every hour for ranges in a "HOT" status
 - Radio checks every 4 hours for training areas and non-live fire events
 - Any mishap must be reported (no matter how small)

Range Communications

- If communications with "LEG IRON" is lost the OIC/RSO will immediately place themselves in a "Check Fire" status.
- Radios can be checked out at FM Mobil.
 - Bldg. 1250
 - Ext. 2553

Outline

- General information
- **Safety standards and range procedures**
- Natural/Cultural Resource Concerns

Range Safety

MEDEVAC Procedures

- For injuries requiring evacuation, the on scene OIC will immediately notify range control in the form of a casualty report.
- If radio communication fails, units/agencies shall use any available phone to contact "LEG IRON." **(928) 269 7080**
- During MEDEVAC, all units on the "LEG IRON" radio channels SHALL **MINIMIZE** communication until the MEDEVAC has been completed.
- "LEG IRON" will request the following information for initiating a MEDEVAC response.
 - TYPE AND SOURCE OF INJURY
 - TYPE OF MEDEVAC (AIR OR GROUND)
 - RANGE/GRID LOCATION
 - MEDICAL PERSONNEL ON SCENE(YES/NO)

Range Safety

MEDEVAC Procedures

- **MEDEVAC Classifications**
 - **Routine** = no threat to life, limb or eyesight
 - **Priority** = requires immediate attention but no threat to life, limb or eyesight
 - **Urgent** = Injury threatens life, limb or eyesight
- Red smoke and pyrotechnics are reserved for **EMERGENCY USE ONLY** and will not be used for training.
- Corpsman/Medic/EMT is required to be on site and familiar with emergency response procedures.
- Dedicated safety vehicle should be capable of transporting casualty horizontally.
- Primary means of evacuation is ground transportation based on **MEDEVAC classification**. Privately Owned Vehicles (POVs) **SHALL NEVER** be used as safety vehicles.
- During a ground MEDEVAC all training shall cease, within specific training area, until a safety vehicle is replaced and training approved by **“LEG IRON”**.

Range Safety

MEDEVAC Procedures

- MEDEVAC shall transport the victim from the specified training site located within the BMGR or CMAGR to the appropriate Medical Treatment Facility.
- The location of the victim and nature of the injury will determine the most expeditious means for the MEDEVAC transport and location of Medical Treatment Facility.
- **MEDEVAC** shall be accomplished by notifying “**LEG IRON**” and providing the MEDEVAC checklist information, IAW MCAS Yuma StaO 3710.6J - Appendix (E) - (E-20).

Range Safety

AIR MEDEVAC Procedures

- Range and Training Area mishaps requiring AIR MEDEVAC services will be coordinated via “LEG IRON”.

✓ CONDITIONS FOR ACTIVATION

1. Aircrew report they have eyes on a parachute following ejection.
2. Aircrew are in communication with personnel on deck requiring AIR MEDEVAC.
3. RSO/OIC determine AIR MEDEVAC is required.



Range Safety

AIR MEDEVAC Procedures

- Upon notification of a requirement for a medical lift LEG IRON personnel will utilize the MEDEVAC Checklist in order to capture as much pertinent information as possible and, pass MEDEVAC aircraft. LEG IRON will request a **Civilian Air Ambulance** to support the transport of injured personnel off Range Spaces.
- Upon MEDEVAC clearance from range LEG IRON will request location of medical facility in which injured personnel can be transported. If MEDEVAC aircraft is unable to relay destination information LEG IRON will make contact with Air Methods Command Desk.

Range Safety

AIR MEDEVAC Procedures

CIVILAIN AIR AMBULANCE

- Does NOT provide a “Search and Rescue” function.
- Has LIMITED night time capability and “NO” Night Sun device / Search Light on-board.
- Is only able to access “IMPROVED” or prepared areas within the Range Training Area.
- LZ’s are pre-coordinated and largely inflexible pickup zones. (Verify Locations)
- Restricted to flat surfaces outside of Impact Areas and Mountainous Terrain.
- Operates on a “First Come, First Serve” basis with NO contractual obligation to prioritize (this includes any private sector MEDEVAC request).
- Can only provide Air Ambulance Services to “One Person” at a time.
- The Air Ambulance is NOT hoist equipped.
- May transport injured personnel to different locations, and NOT necessarily to the closest Medical Facility.

Real World MEDEVAC

YUMA REGIONAL MEDICAL CENTER

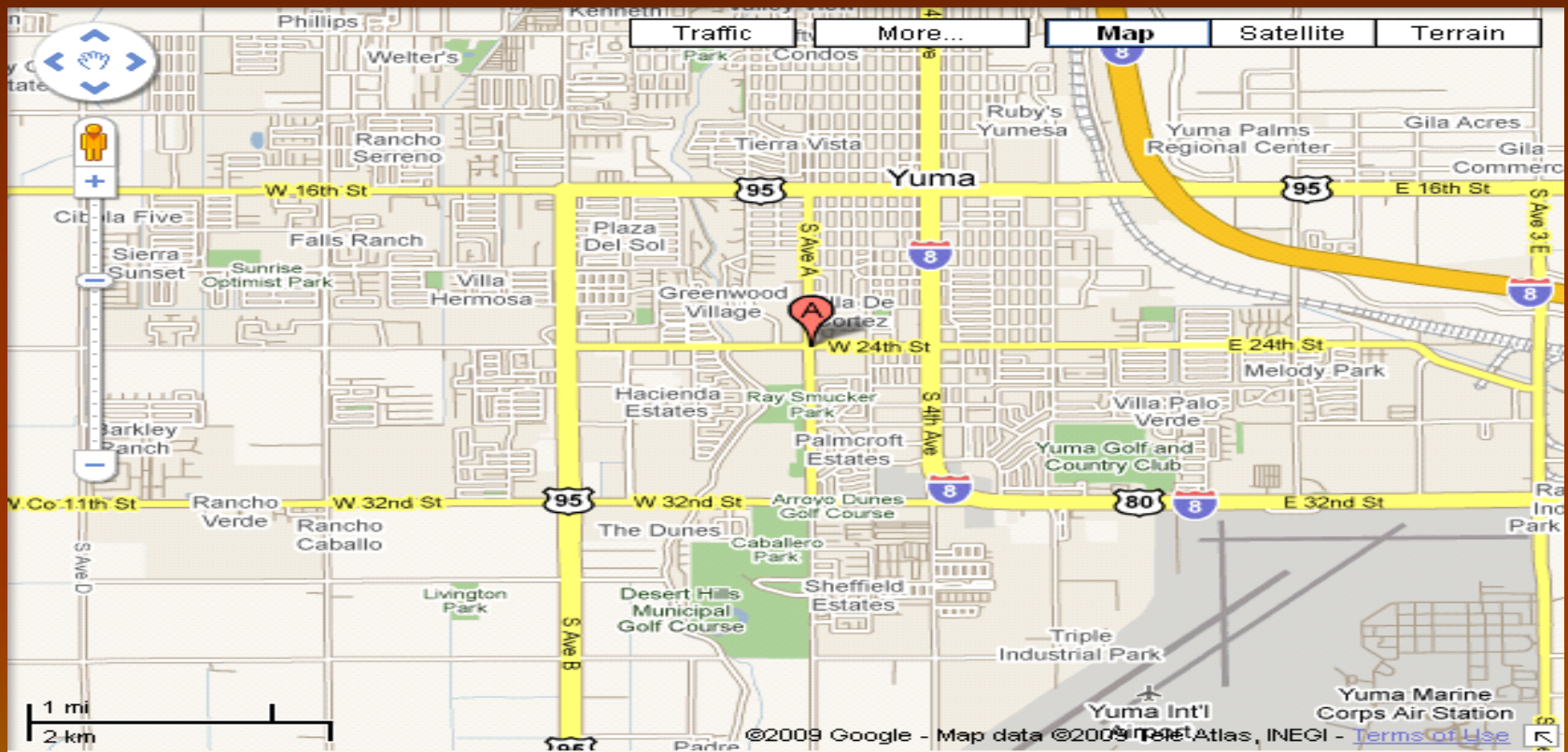
2400 S. Avenue A

Yuma, AZ. 85364

(928) 344-2000

72 Bed Emergency Room

HELIPAD on-site (Roof-Top)



Real World MEDEVAC

PIONEERS MEMORIAL HOSPITAL

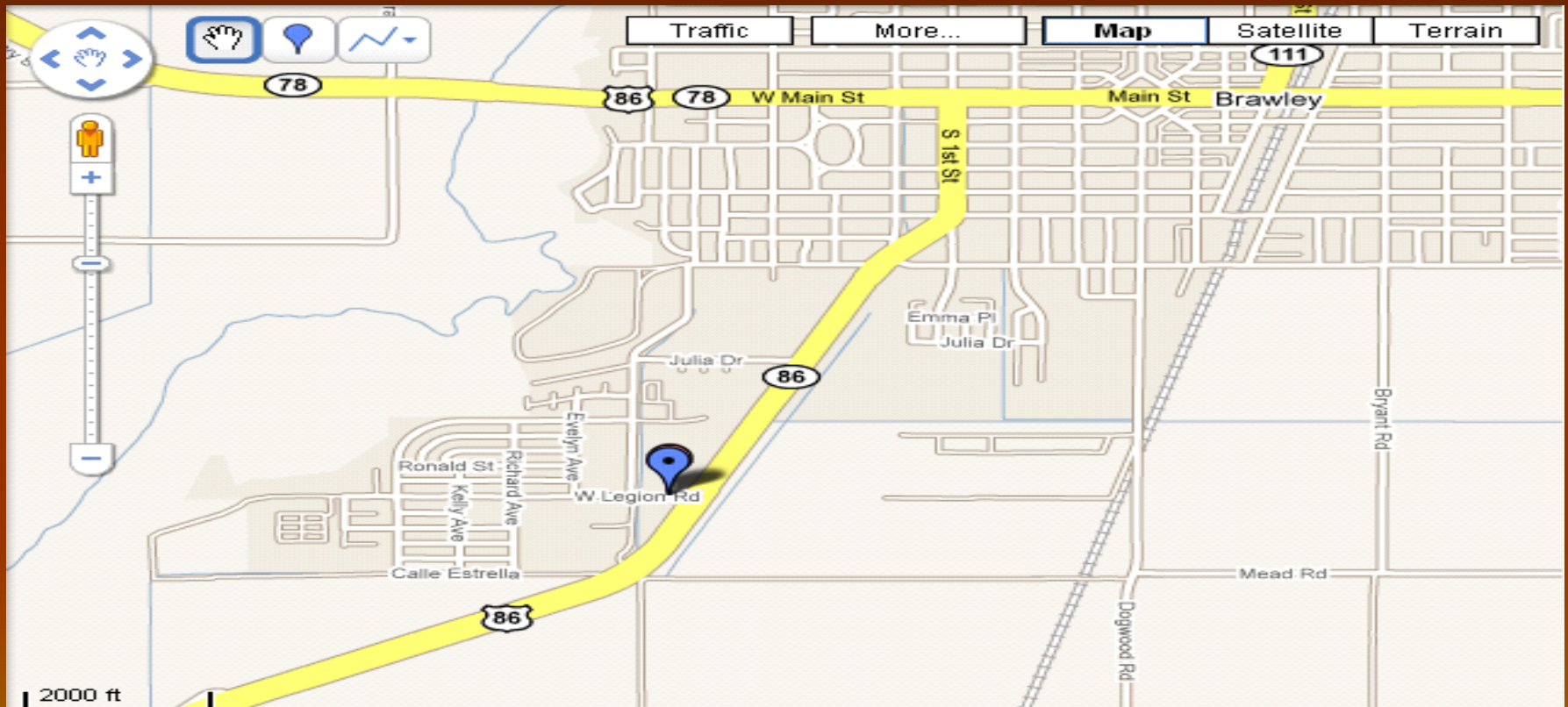
207 W. Legion Road

Brawley, CA . 92227

(760 351-3333

16 Bed Emergency Room

Level-4 Trauma Center



Real World MEDEVAC

EL CENTRO MEDICAL CENTER

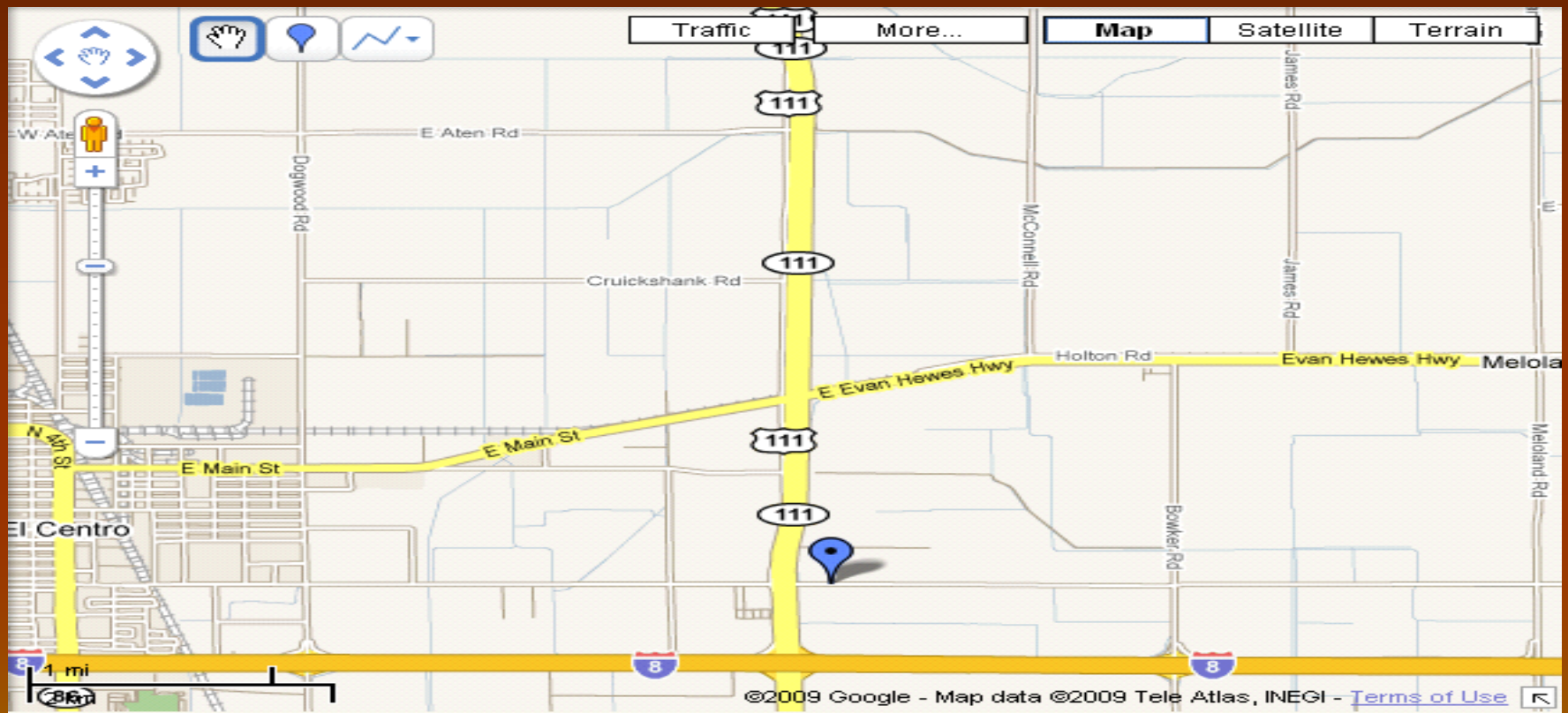
1415 Ross Avenue

El Centro, CA. 92243

(760) 339-7254

20 Bed Emergency Room

HELIPAD on-site (Roof-Top)



Range Safety

Unexploded Ordnance

- **UNEXPLODED MUNITIONS ARE DEADLY!**
- Receiving a Range/UXO brief is mandatory prior to range entry.
- Rules for Unexploded Ordnance – Practice the 3 R's;
 - **Recognize**: Note location with grid coordinate (8 digit minimum) and provide a guide.
 - **Retreat**: Move away from the suspected UXO
 - **Report**: Contact Range Control "LEG IRON"

Range Procedures

General Safety Guidelines

- Red flags or red blinking lights (night fire) will be displayed for all live fire training.
- Range L/R lateral limit markers are placed on all static live fire ranges, all fires will remain between the markers only. These markers will not be used as targets.
- Use only designated approved training areas depicted on the Range Map.

Range Procedures

General Safety Guidelines

- All unit hikes and convoy routes shall be included in the initial RTA request and an overlay submitted to Range Control.
- Barbed wire, concertina wire, sand bags, engineer tape, chem. lights, and any other obstacles and debris **SHALL** be removed.
- Simulators **SHALL NOT** be placed or thrown any closer than 35 meters of any personnel
- Smoke **SHALL NOT** be thrown any closer than 10 feet to any standing structure

Range Procedures

Training Areas

- Authorized Earthen Berms/ Fighting holes/ Containment Trenches shall be covered and restored to its natural state prior to departing BMGR training areas.
- Digging is **NOT** authorized in CMAGR training areas, IAW MCAS Yuma StaO 3710.6J.
- Privately Owned Vehicles (POVs) not authorized in **Live Fire** training ranges.

Range Procedures Vehicles

- No vehicle should exceed **25 MPH** as posted on all established roads.
- All vehicles are required to stay within **25 feet** of established roads, to include tactical vehicles.
- Violators will receive State/Local Law Enforcement Citations (Orchards and Canal Roads are Off Limits). Violators are subject to administrative action, to include Federal Traffic citations.
- Range OIC/RSO privileges can be revoked by RCO based on the severity of the infraction(s).
- **Any form of off-road/tactical vehicle activity is PROHIBITED in the Range Training Areas (RTA).**

Range Procedures

Field Ration Heaters (FRH)

YES



**Dispose of all unused heaters
in the appropriate container**

NO



Range Procedures

Field Hygiene

- Rules for Litter
 - Collect all trash and dispose of in the proper locations
 - All personnel shall clean all areas for litter before departing
 - Leave your training areas as undisturbed as possible
 - If you carry it in, carry it out.
 - All personnel shall use chemical toilets when available (1 per 15 personnel)
 - Human waste/by-products only.

Range Procedures

Hazardous Waste Guidelines

- **VEHICLE HAZARDOUS WASTE**
- ✓ **Ground Cover & Secondary Containment Required for:**
 - All Vehicles carrying HM, HW, HS, storage.
 - All vehicles parked longer than **4 hours** including bivouac areas.
 - All Generators / Tanks / Hoses / Other equipment.
 - Any vehicle that has a leak (sitting long enough to stain or puddle).
 - All Vehicle Engines / Fuel Tanks / Transmission / Transfer Cases.
- ✓ **Petroleum Contaminated Soil (PCS) / Spills:**
 - The **SPILL** will be cleaned Immediately, and then mark the container as PCS.



Range Procedures

Hazardous Waste Guidelines

- **SPILL REPORTING**

- ✓ Report all spills or leaks immediately

- **NO MATTER HOW SMALL!!!**

- Report
 - Size
 - Location
 - Type of spill

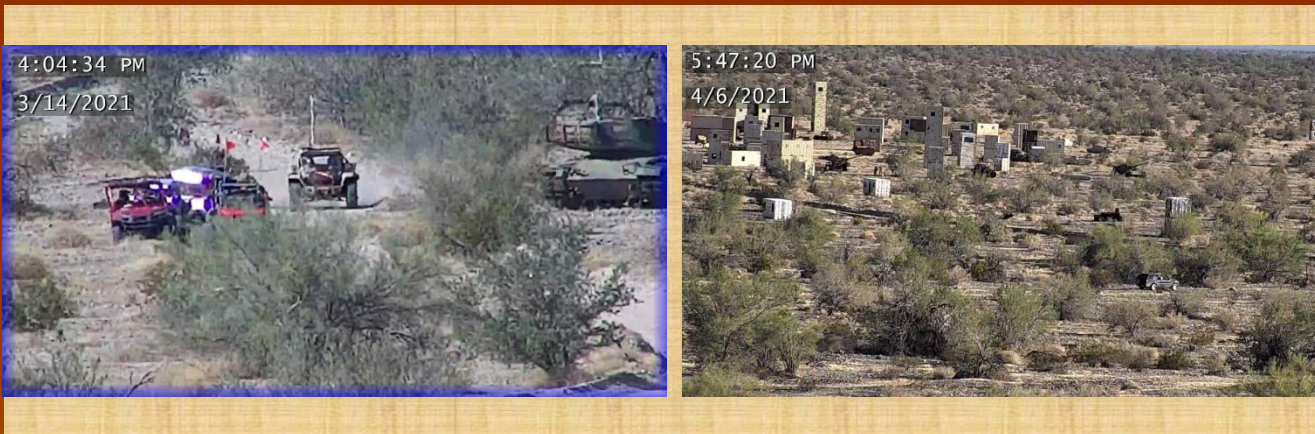
- ✓ For HAZMAT Emergency Response report to the following operations contact:

Station Environmental Department (928) 269-3201/2282

WTI contact MAWTS-1 Environmental (928) 269-6526

INTERLOPERS WITHIN THE RANGE

- Interlopers frequently interrupt training throughout the MCAS RTA.
- Interlopers can be Scrappers, Undocumented Aliens, Recreation, or Non participating Civilian or Government entities.
- If encountered within R-2507 (N/S/W) or R-2301W; Operator shall provide Leg Iron with any information that that can be captured visibly and pass information when able:
- License plate
- Vehicle type
- Sensor footage/screen shot that captures vehicle within DoD managed property.
- MCAS Yuma will coordinate with SJA for prosecution of observed trespassers.
- Information can be passed, via phone, email upon post flight or real time if situation permits.



Range Procedures

Civilian Contact

- Rules for Civilian Contact
 - Treat visitors with courtesy and professionalism
 - BMGR is open to the public for recreational activity.
 - **Civilians are not authorized or permitted in GSA's during military operations.**



Range Procedures Illegal Immigrants

If Illegal Immigrants are detected:

- Contact "LEG IRON" with the following information:
 - Location and direction of travel
 - Number in group
- Medical emergencies – Contact "LEG IRON"
 - Provide emergency assistance if required



Range Procedures

Scrappers

Civilians are **NOT** authorized in the Chocolate Mountain Aerial Gunnery Range (CMAGR)

- Scrappers are civilians who enter the range to collect scrap metal for monetary gain.
- Scrappers have been known to be armed and can present a danger to anyone. If you see a Scrapper, contact Leg Iron.



Range Procedures

Use of Force

- Station Order 5532
 - Sets the guidance regarding use of force by non-law enforcement Marines
 - Arresting Scrappers or Illegal Immigrants is not your responsibility, contact LEG IRON
- In such cases where the use of force is warranted, armed personnel shall use the MINIMUM amount of force necessary to reach their objective.

Outline

- General information
- Safety standards and range procedures
- Natural/Cultural Resource Concerns

Conservation Division Management Responsibility For Natural/Cultural Resources

Management Responsibility BMGR Complex

BMGR COMPLEX TOTAL	1.7 million acres
BMGR-WEST (MCASY)	692,810 ACRES
BMGR-EAST (LAFB)	1,007,190 ACRES
CMAGR (MCASY)	455,879 ACRES
MCASY TOTAL	1,148,689 ACRES

This is some of the most pristine non-fragmented desert
(Sonoran/Mojave) left in the US.

FEDERAL ENVIRONMENTAL LAWS

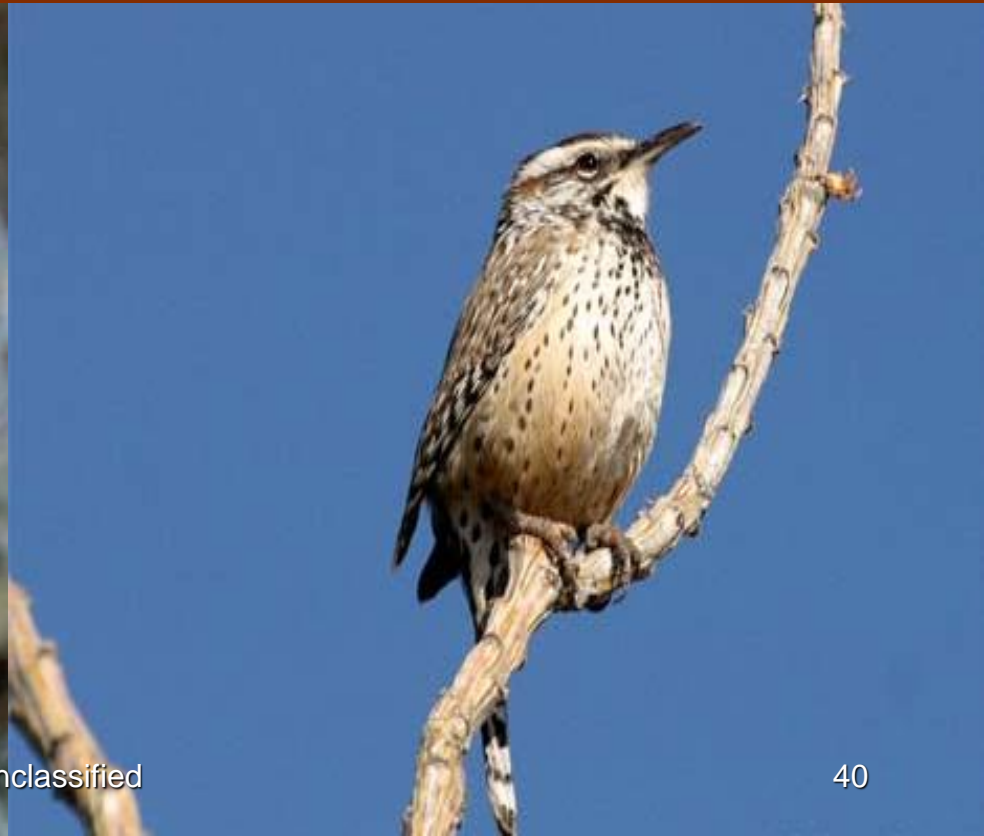
- ❑ National Environmental Policy Act (NEPA)
- ❑ Migratory Bird Treaty Act (MBTA)
- ❑ Endangered Species Act (ESA)
- ❑ Bald and Golden Eagle Protection Act (BGEPA)

MIGRATORY BIRD TREATY ACT

- ☐ Do not disturb birds, nest, or eggs
- ☐ If Safety Concern Call LEGIRON

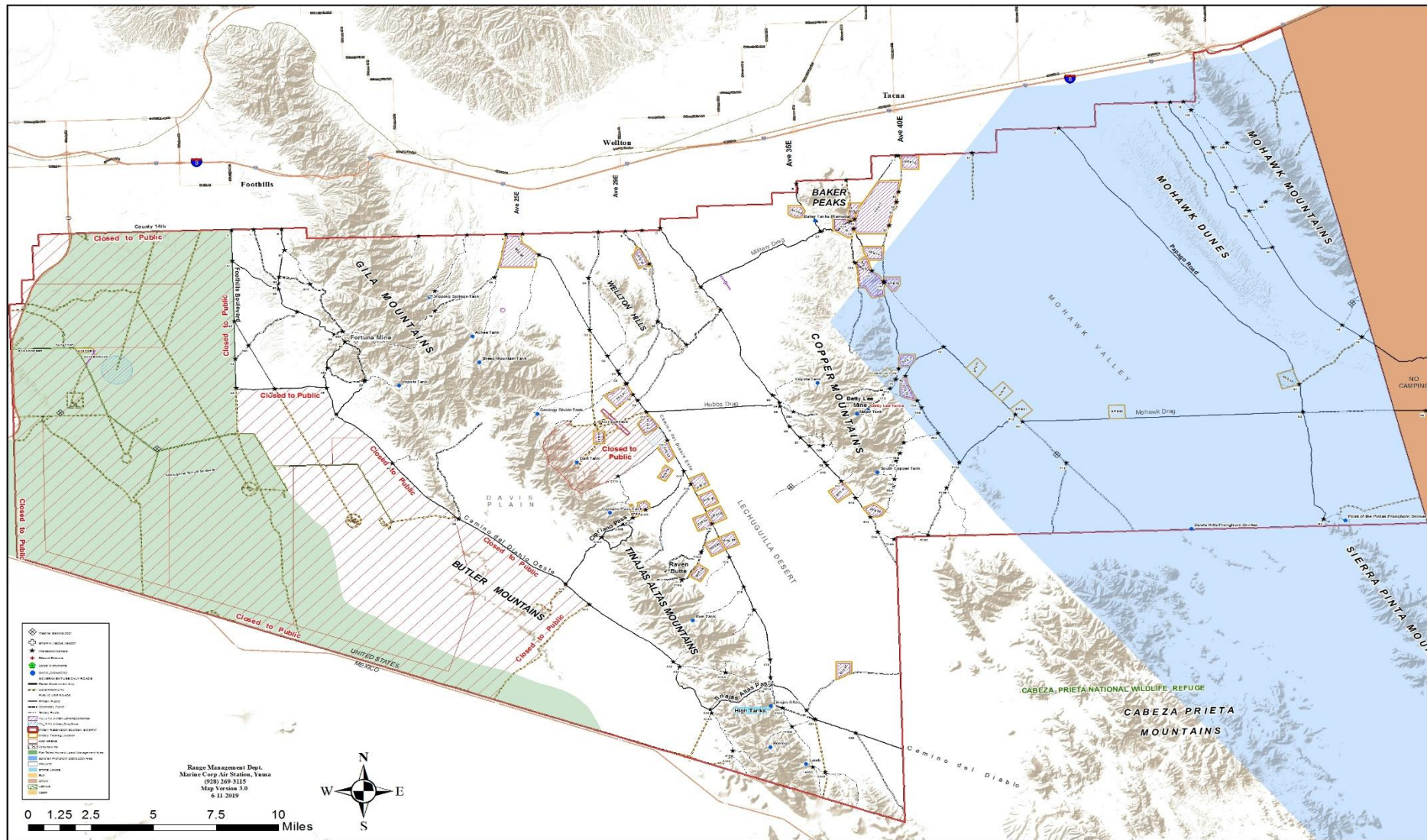


Ver 1.1 08/10/2021



Unclassified

Sonoran Pronghorn and FTHL Habitat BMGRW



SPECIES OF SPECIAL CONCERN

Flat-Tailed Horned Lizard (*Phrynosoma mcalli*)

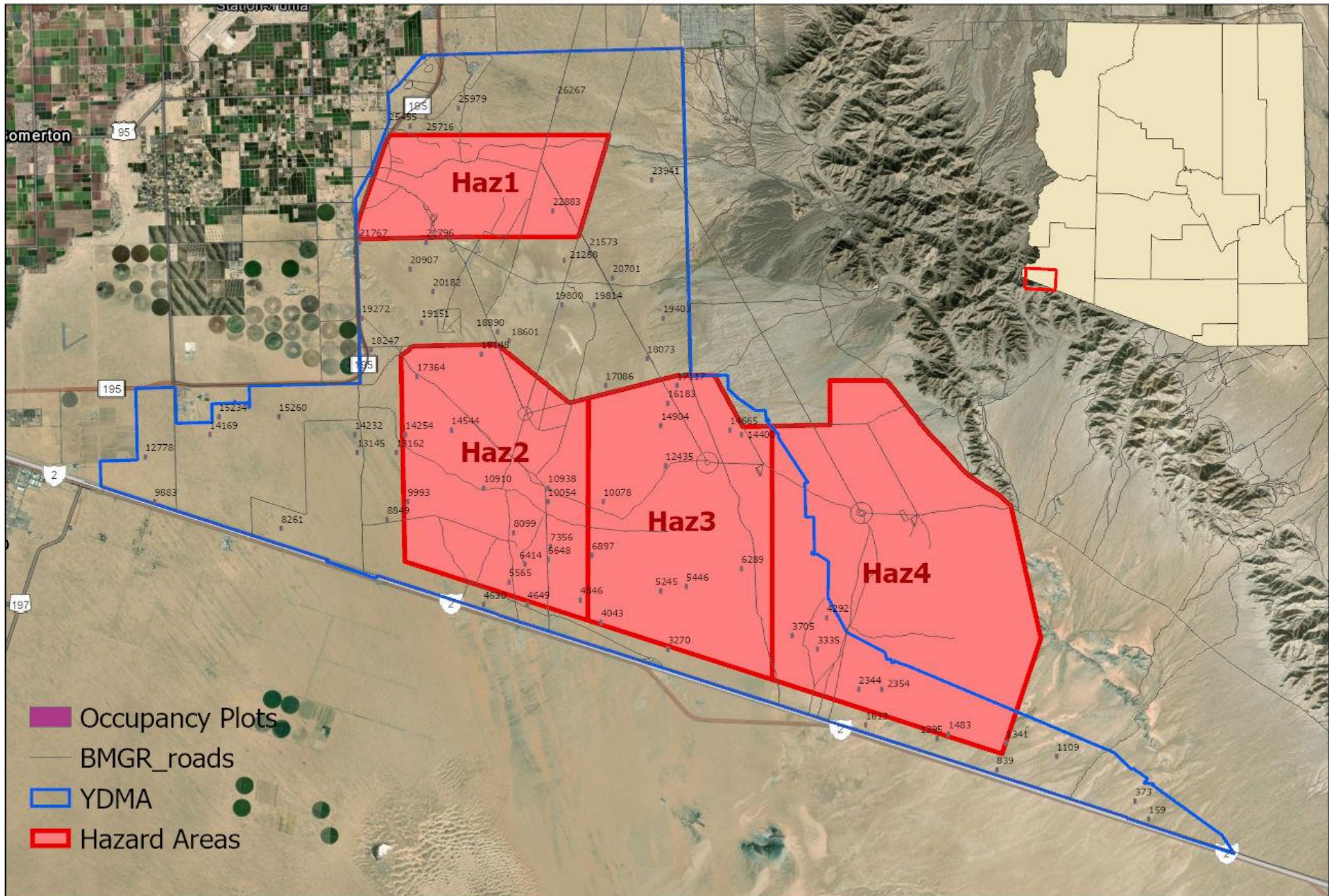
- ☐ Inspect under vehicle prior to movement
- ☐ Observe speed limit (25MPH)
- ☐ Stay on designated roads



Ver 1.1 08/10/2021



Unclassified



Phrynosoma mcallii Occupancy 2020

Ver 1.1 08/10/2021

Unclassified



0 5 10 Kilometers

ENDANGERED/THREATENED SPECIES

- ❑ ENDANGERED SPECIES: Any species which is in danger of extinction throughout all or a significant portion of its range.
- ❑ THREATENED SPECIES: Any species which is likely to become endangered within the foreseeable future throughout all or a significant portion of its range
- ❑ CRITICAL HABITAT: Areas of habitat that are essential for the conservation/survival of that species. CMAGR (187,842 acres Desert tortoise)
- ❑ It is **ILLEGAL** to destroy or harass any endangered/threatened species or their habitat

ENDANGERED SPECIES

Sonoran pronghorn (*Antilocapra sonoriensis*) BMGRW ONLY

- ☐ Do not disturb.
- ☐ Report all sightings w/GPS location as soon as practical.
- ☐ Immediately report if the Sonoran pronghorn is injured or dead to LEGIRON w/GPS location.



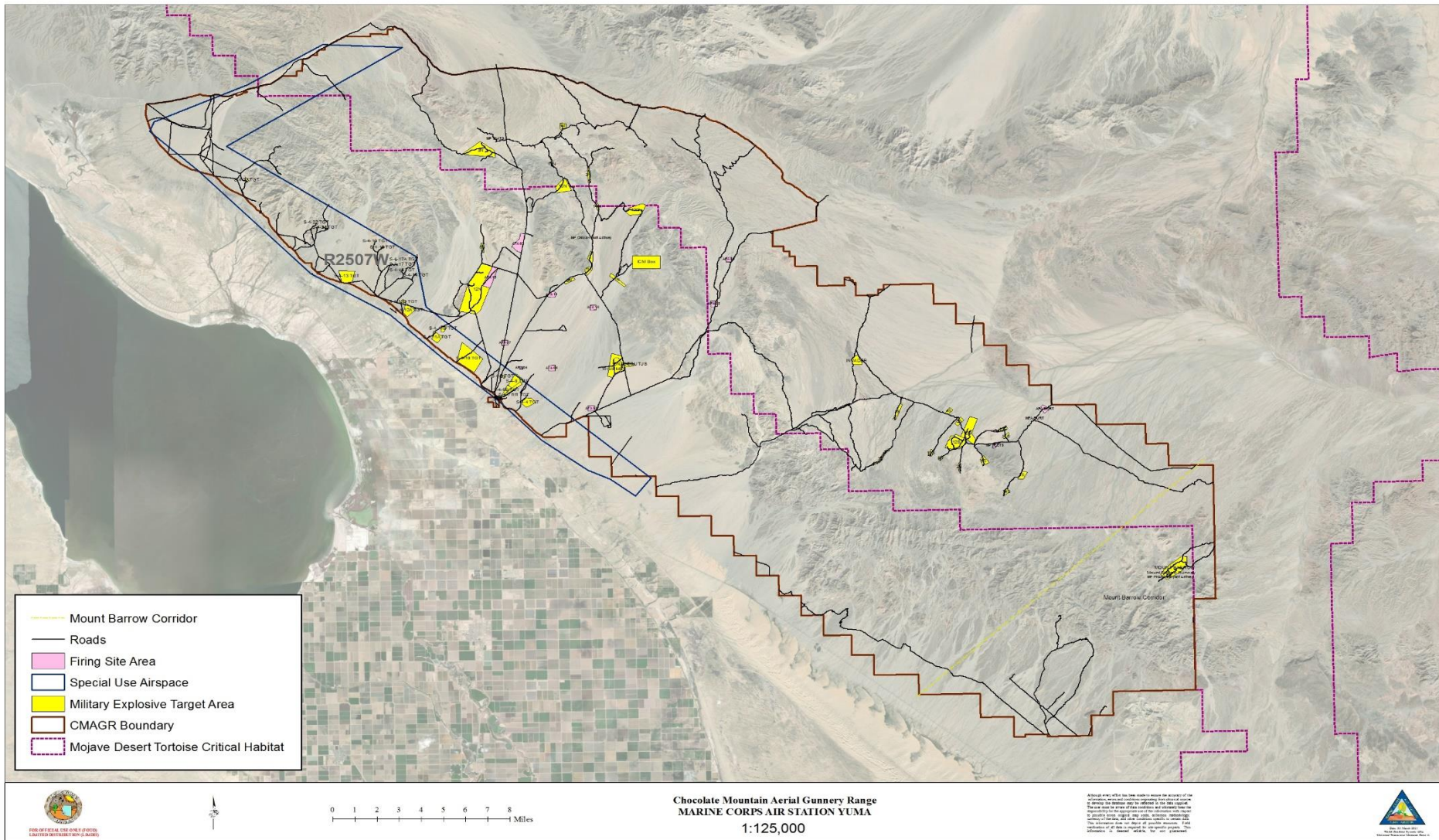
THREATENED SPECIES

The Desert Tortoise (*Gopherus agassizii*) CMAGR ONLY

- ☐ In the road go around it.
- ☐ Under a vehicle let tortoise move away on its own accord
- ☐ Do not touch/handle any tortoise
- ☐ Trash abatement to reduce predators (Ravens, Coyotes)
- ☐ If you find a dead/injured tortoise or a non-mover call LEGIRON
- ☐ 188,000 acres of designated Critical Habitat within the CMAGR.



Desert Tortoise Critical Habitat CMAGR



Arizona Rattlesnake Species

Arizona Rattlesnakes



Western Rattlesnake
(*Crotalus oreganus*)

- Up to 63" long
- Has venom twice as strong as Western Diamond-backed Rattlesnake, but produces less venom



Western Diamond-backed Rattlesnake
(*Crotalus atrox*)

- Up to 66" long
- Largest rattlesnake in the West
- Responsible for more bites and deaths to humans than any other rattlesnake species in U.S.



Ridge-nosed Rattlesnake
(*Crotalus willardi*)

- Up to 26" long
- Gets its name from raised ridge of scales around front of snout
- Arizona Ridge-nosed Rattlesnake is official state reptile
- One of four rattlesnake species with special protection in Arizona



Twin-spotted Rattlesnake
(*Crotalus pricei*)

- Up to 26" long
- Small rattle sounds like insect
- One of four rattlesnake species with special protection in Arizona



Rock Rattlesnake
(*Crotalus lepidus*)

- Up to 33" long
- Young use brightly colored tail to attract prey, but tail changes color as snake gets older
- One of four rattlesnake species with special protection in Arizona



Speckled Rattlesnake
(*Crotalus mitchellii*)

- Up to 51" long
- Color can vary greatly from nearly white to pink, gray or brown
- Color often matches their surroundings



Mohave Rattlesnake
(*Crotalus scutulatus*)

- Up to 50" long
- Widely considered most toxic rattlesnake in U.S.
- Easily confused with Western Diamond-backed Rattlesnake



Sidewinder
(*Crotalus cerastes*)

- Up to 25" long
- Travels in side-winding motion
- Only rattlesnake with horns over eyes



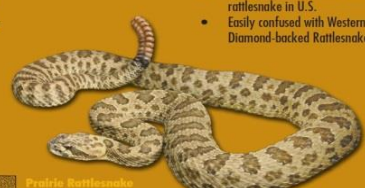
Black-tailed Rattlesnake
(*Crotalus molossus*)

- Up to 48" long
- Color can vary greatly from brown or beige to green or golden yellow



Arizona Black Rattlesnake
(*Crotalus carolinus*)

- Up to 42" long
- Young are vividly patterned and can look very different from adults



Prairie Rattlesnake
(*Crotalus viridis*)

- Up to 64" long
- Reportedly used in famous Hopi snake dance ritual



Tiger Rattlesnake
(*Crotalus tigris*)

- Up to 35" long
- Small head doesn't hold much venom, but venom is powerful

Rattlesnake Facts:

- Scientists have identified 36 rattlesnake species.
- Rattlesnakes live only in North and South America.
- 13 species live in Arizona, more than any other state.
- Rattlesnakes use the "loreal pit," a heat-sensing organ between the nostril and eye to locate prey and potential predators.
- These snakes have glands that make venom, much like human saliva glands make saliva.
- The rattle is made of keratin, the same material found in human hair and fingernails.
- The age of a rattlesnake cannot be determined by counting the segments of its rattle.
- Rattlesnake prey may include small mammals, birds, reptiles, amphibians and centipedes.
- According to Arizona Poison Centers, less than 1% of rattlesnake bites result in human deaths.

Learn more about Arizona's rattlesnakes from the book "A Field Guide to Amphibians and Reptiles in Arizona" available for sale at Arizona Game and Fish Department offices, and through free lessons from the department's environmental education program at azgfd.gov/focuswild.



Arizona Game and Fish Department • (602) 943-3000 • azgfd.gov • January 2007

RATTLESNAKES

- ❑ 13 species of rattlesnakes in Arizona
- ❑ Sidewinder, Mojave, Speckled, Black-Tailed, and Western Diamondback occur on our ranges
- ❑ They are all venomous and can inflict an extremely painful bite! (rarely fatal)
- ❑ If bitten a trip to the local hospital will be required for medical treatment.
- ❑ Be aware of your surroundings at all times. Look before you sit or take position.

Sidewinder Occurs on BMGRW & CMAGR



Western Diamondback Rattlesnake Occurs On BMGRW & CMAGR



PLANT SPECIES PROTECTED BY LAW

CACTI: SAGUARO, OCOTILLO

- ❑ Do not disturb.
- ❑ Digging up, cutting, collecting, burning, is prohibited!



NATURAL RESOURCES

Some Simple Rules To Follow:

- ❑ Stay on designated Roads. Do not go cross country driving. Ground Support Areas (GSA) are approved training sites. Currently there are 33 active GSA's located on the BMGRW. Even while driving in the GSA's avoid damaging native plant life. Training support areas on the CMAGR include Camp Burt, Bull Attack/Assault, Star Attack/Assault and Siphon 8 Bivouac site. All designated roads are marked on maps.
- ❑ Maintain vehicle speeds at 25 MPH or less while on designated roads (BMGRW/CMAGR) Speed limit in Desert tortoise critical habitat is 20 MPH (CMAGR).
- ❑ There are numerous wildlife species on the range (Bighorn sheep, Mule Deer, Mountain Lions, Bobcats, Coyotes, Foxes, jackrabbits, cottontail, and numerous reptile and bird species) Do not harass wildlife and they will not harass you!! Remember rattlesnakes, scorpions, spiders, wasps, and bees occur on the range.
- ❑ Keep water/trash issues at a minimum (no leaks water buffalos, dispose of trash properly). Use common sense this will reduce unwanted critter visits. Contact LEGIRON (928)269-7080 if there are any safety concerns with wildlife in bivouac sites.

Archaeological Regulations

- Stay away from abandoned Mines and Wells located throughout the BMGR and CMAGR.
- Do not collect arrowheads, pottery shards, mining equipment, or other artifacts. The collection of any of these items is prohibited.
- Do not deface any archaeological site, or cultural resource. This is considered vandalism and is strictly prohibited



REMEMBER!!

- Use **COMMON SENSE** when on the ranges be vigilant and report any issues with wildlife to LEGIRON. And remember if one is found deliberately harassing wildlife or destroying protected vegetation (Saguaro, Ocotillo) they can face civil or criminal penalties!! So enjoy your stay train hard, have fun, enjoy viewing the wildlife, and use good **COMMON SENSE!!**



Covert

06.23.2012 18:44:48



Covert

06.13.2016 06:43:38



Covert

11.17.2016 16:14:23



Covert

08.29.2016 05:58:32



Covert

11.02.2016 14:10:19



Covert

06.27.2016 11:54:50



Covert

10.19.2016 08:58:07



ANY QUESTIONS?